



SERIE TA CP

**LIGHT
DUTY**





Teste ad Angolo innovative, nate per tutte le macchine utensili, anche di piccole dimensioni e dagli ingombri contenuti, dove si richiedono performances elevate nonostante la capacità di peso limitata sul cambio utensile. Quindi Teste ad Angolo più leggere ma con qualità e affidabilità tipiche dei nostri prodotti.

L'obiettivo di contenere il peso è stato raggiunto costruendo il corpo in lega di alluminio aeronautico e adottando un sistema antirotante semplificato e alleggerito, pur rimanendo inalterata la modularità dei coni di attacco tipica della serie Heavy Duty.

La caratteristica principale di questa nuova generazione è di potere eseguire forature, maschiature e lamature su quelle macchine utensili dove il peso del cambio utensile ha forti limitazioni o quando i costi di produzione devono essere estremamente competitivi.

Caratteristiche comuni della Teste ad Angolo serie CP sono:

- perno antirotante conico che, al contrario dei perni cilindrici, elimina i giochi angolari
- possibilità di utilizzo su macchine dove già presente Stop-Block della serie Heavy Duty per una perfetta compatibilità di tutta la gamma
- sistema di orientamento testa ad angolo in macchina ottimizzato, per una più facile e rapida registrazione
- ingranaggi Gleason con evolvente rettificato
- lubrificazione long life
- peso estremamente ridotto per Teste ad Angolo con queste capacità di lavoro
- utilizzo su centri di lavoro di piccole dimensioni
- versioni anche prolungate per una maggiore flessibilità di gamma
- coni disponibili: DIN69871, BT, BBT, HSK, CAT.

These angle heads introduce an innovative line targeting all the small machine-tools with restrained size, but with high performances despite limited weight on tool changer. Therefore TA.CP angle heads are lighter but with both quality and reliability typical of our products.

Highlight of this line is the head body in aeronautical aluminium alloy combined with a simplified and lightened torque-arm system, allowing to maintain unchanged the back-end shank modularity characteristic of our Heavy Duty range.

The major feature of this new generation of angle heads is to be able to perform drilling, tapping and reaming operations on machine-tools with high limitations on tool changer weight, or when production costs must be extremely competitive.

The major specifications of the new TA.CP range are:

- conical (V-shape) torque-arm pin which eliminates any angular backlashes, unlike cylindrical type of pins
- possibility of using them on machines which are already equipped with a Stop-Block of the Heavy Duty range, getting them fully compatible with our complete range
- optimized indexing set-up for an easier and faster adjustment on machine-tools
- lubricated-for-life
- ground involute Gleason type gears
- extremely reduced weight in comparison to the capabilities and performances of this new range of angle heads
- usable on small size machining centres
- extended length versions available further completing this new range
- DIN69871, BT, BBT, HSK and CAT back-end shanks available

FH

BAH

TA-CP

TA

MOX

HT

3-3

VH

TSI/TSX

T

MT-TC-TC3



TA07.CP

TESTA AD ANGOLO - ANGLE HEAD



30

2,1 KG

40

2,5 KG

IN

INPUT

OUT

OUTPUT

PESO
WEIGHTROTAZIONE
ROTATION

Ø7



M6



150 N

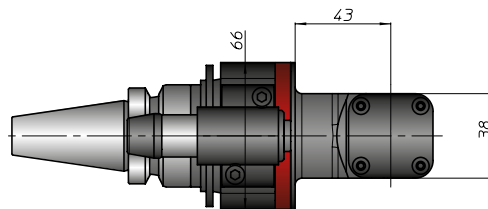
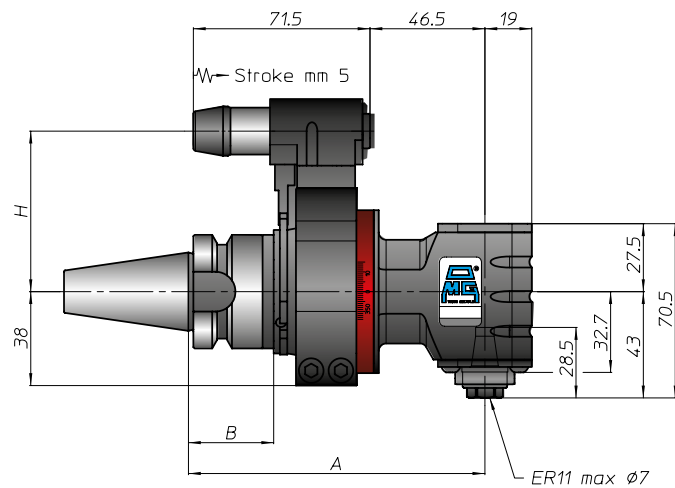
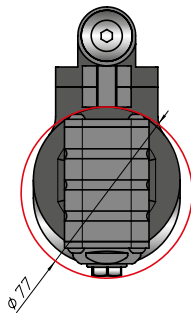


1-1

8000
RPM

Nm

5,6

CARATTERISTICHE
FEATURESCONO
SHANK

DIN69871



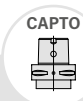
ANSIB5.50



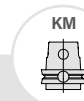
30 | 40



DIN69893



ISO26623



KM



DIN2080



ANSIB5.18

SIZE

30

40

40

30

40

63

A

120

120

120

129

B

35

35

35

44

H STANDARD

65

65

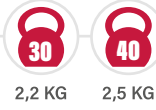
65

65

H OPTIONAL



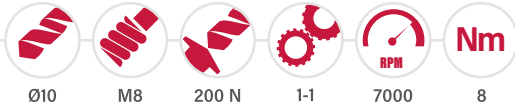
PESO
WEIGHT



ROTAZIONE
ROTATION

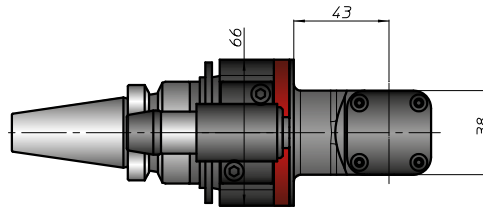
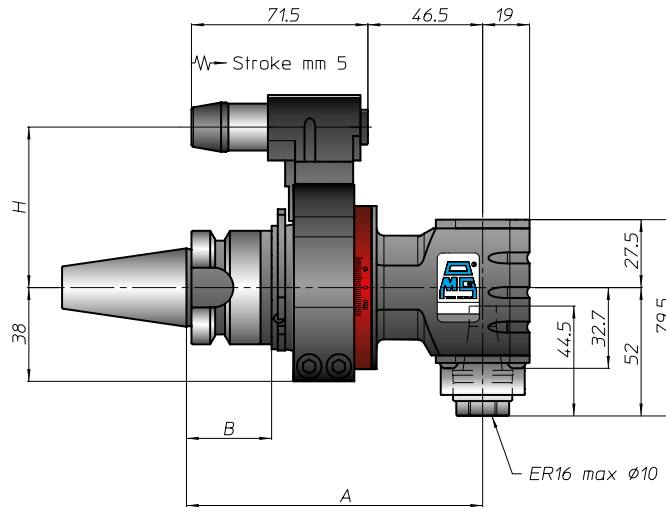
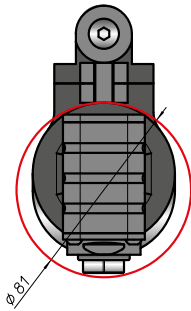


CARATTERISTICHE
FEATURES

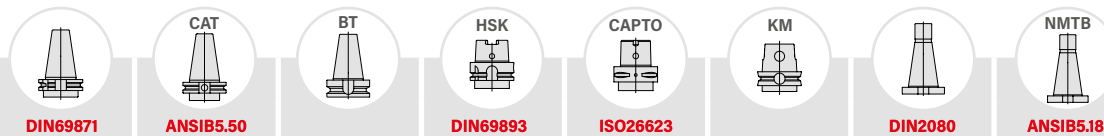


TA10.CP

TESTA AD ANGOLO - ANGLE HEAD



CONO
SHANK



SIZE

30	40	40	30	40	63			
----	----	----	----	----	----	--	--	--

A

120	120	120	120	129				
-----	-----	-----	-----	-----	--	--	--	--

B

35	35	35	35	44				
----	----	----	----	----	--	--	--	--

H STANDARD

65	65	65	65	65				
----	----	----	----	----	--	--	--	--

H OPTIONAL

--	--	--	--	--	--	--	--	--

FH

BAH

TA.CP

TA

MOX

HT

3-4

VH

TSI/TSX

T

MT-TC-TC3



FH

BAH

TA-CP

TA

MOx

HT

3-5

VH

TSI/TSX

T

MT-TC-TC3



TA13.CP

TESTA AD ANGOLO - ANGLE HEAD



30

5 KG

40

7,5 KG

PESO
WEIGHT

IN

INPUT

OUT

OUTPUT

ROTAZIONE
ROTATION

Ø13



M10



560 N

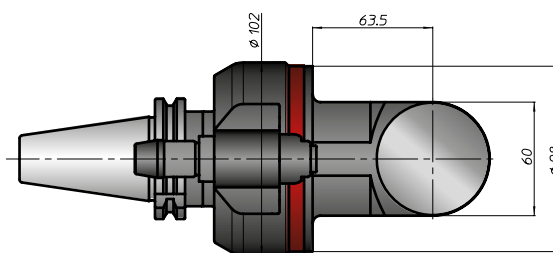
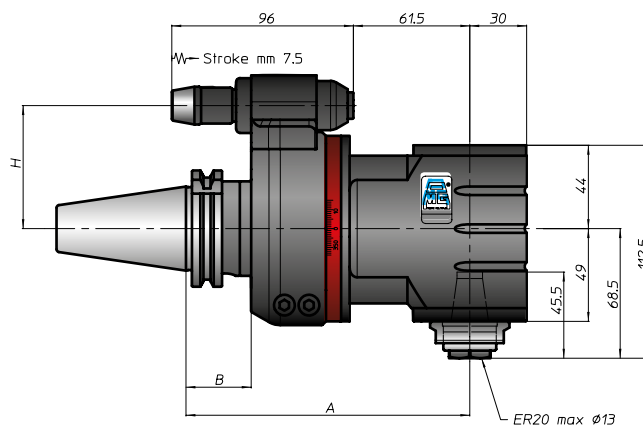
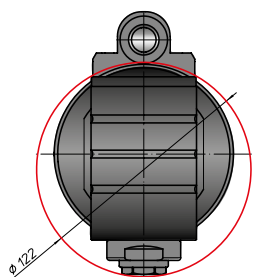


1-1

6000
RPM

Nm

19

CARATTERISTICHE
FEATURESCONO
SHANK

DIN69871



ANSIB5.50



BT



DIN69893



ISO26623



KM



DIN2080



ANSIB5.18

SIZE

30	40	45	50	40	50	40	50	63	80	100				
----	----	----	----	----	----	----	----	----	----	-----	--	--	--	--

A

150	150	150	158	159										
-----	-----	-----	-----	-----	--	--	--	--	--	--	--	--	--	--

B

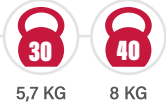
35	35	35	45	44	46									
----	----	----	----	----	----	--	--	--	--	--	--	--	--	--

H STANDARD

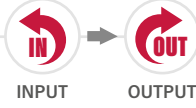
65	80	65	80	65	80									
----	----	----	----	----	----	--	--	--	--	--	--	--	--	--

H OPTIONAL

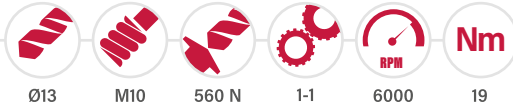
PESO
WEIGHT



ROTAZIONE
ROTATION

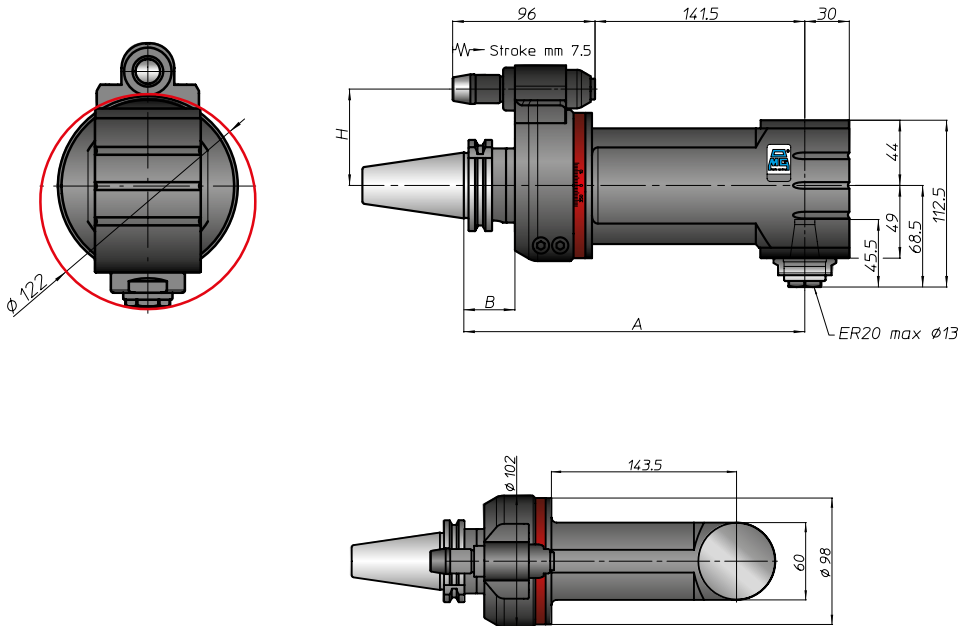


CARATTERISTICHE
FEATURES



TA13.CPL

TESTA AD ANGOLO - ANGLE HEAD



CONO
SHANK

SIZE

A

B

H STANDARD

H OPTIONAL

	DIN69871		ANSIB5.50		BT		DIN69893			ISO26623		DIN2080		ANSIB5.18	
SIZE	30	40	45	50	40	50	40	50	63	80	100				
A	230				230		230	238	239						
B	35				35		35	45	44	46					
H STANDARD	65	80			65	80	65	80	65	80					
H OPTIONAL															

FH

BAH

TA.CP

TA

MOX

HT

3-6

VH

TSI/TSX

T

MT-TC-TC3



FH

BAH

TA-CP

TA

MOX

HT

3-7

VH

TSI/TSX

T

MT-TC-TC3



TA16.CP

TESTA AD ANGOLO - ANGLE HEAD



30

5 KG

40

7,5 KG

PESO
WEIGHT

IN

INPUT

OUT

OUTPUT

ROTAZIONE
ROTATION

Ø16



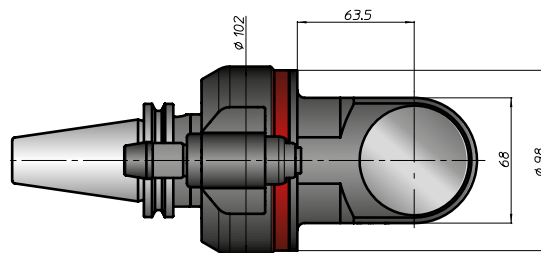
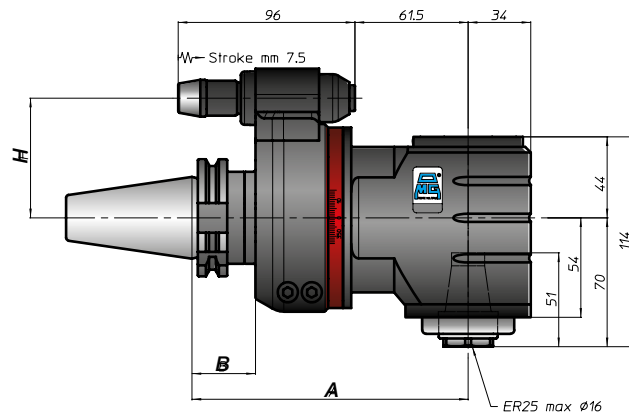
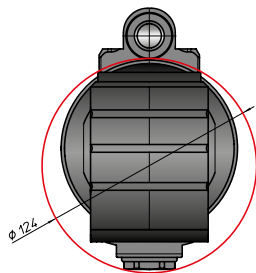
M12



850 N



1-1

4000
RPM30
NmCARATTERISTICHE
FEATURESCONO
SHANK

DIN69871



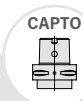
ANSIB5.50



BT



DIN69893



ISO26623



KM



DIN2080



ANSIB5.18

SIZE

40	45	50	40	50	40	50	63	80	100			
----	----	----	----	----	----	----	----	----	-----	--	--	--

A

150	150	150	158	159					
-----	-----	-----	-----	-----	--	--	--	--	--

B

35	35	35	45	44	46				
----	----	----	----	----	----	--	--	--	--

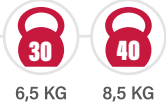
H STANDARD

65	80	65	80	65	80				
----	----	----	----	----	----	--	--	--	--

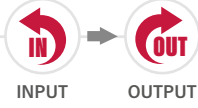
H OPTIONAL



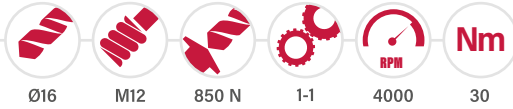
PESO
WEIGHT



ROTAZIONE
ROTATION

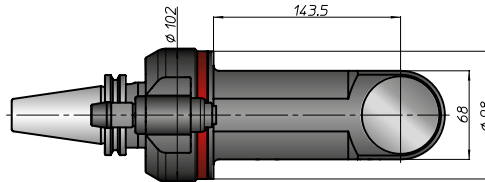
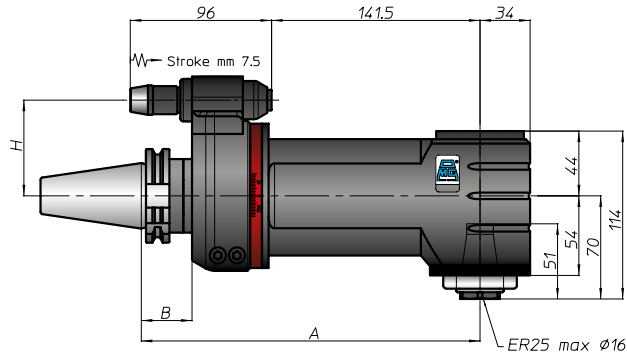
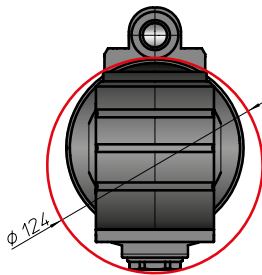


CARATTERISTICHE
FEATURES



TA16.CPL

TESTA AD ANGOLO - ANGLE HEAD



CONO
SHANK

SIZE

A

B

H STANDARD

H OPTIONAL

	ANSIB5.50			BT		DIN69893			ISO26623		DIN2080		ANSIB5.18	
	40	45	50	40	50	40	50	63	80	100				
A	230			230		230	238	239						
B	35			35		35	45	44	46					
H STANDARD	65	80		65	80	65	80	65	80					
H OPTIONAL														

FH

BAH

TA.CP

TA

MOX

HT

3-8

VH

TSI/TSX

T

MT-TC-TC3



FH

BAH

TA-CP

TA

MOx

HT

3-9

VH

TSI/TSX

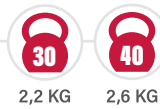
T

MT-TC-TC3

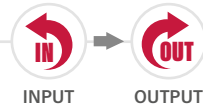


TAVO7.CP

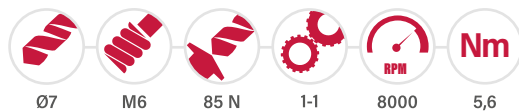
TESTA AD ANGOLO - ANGLE HEAD



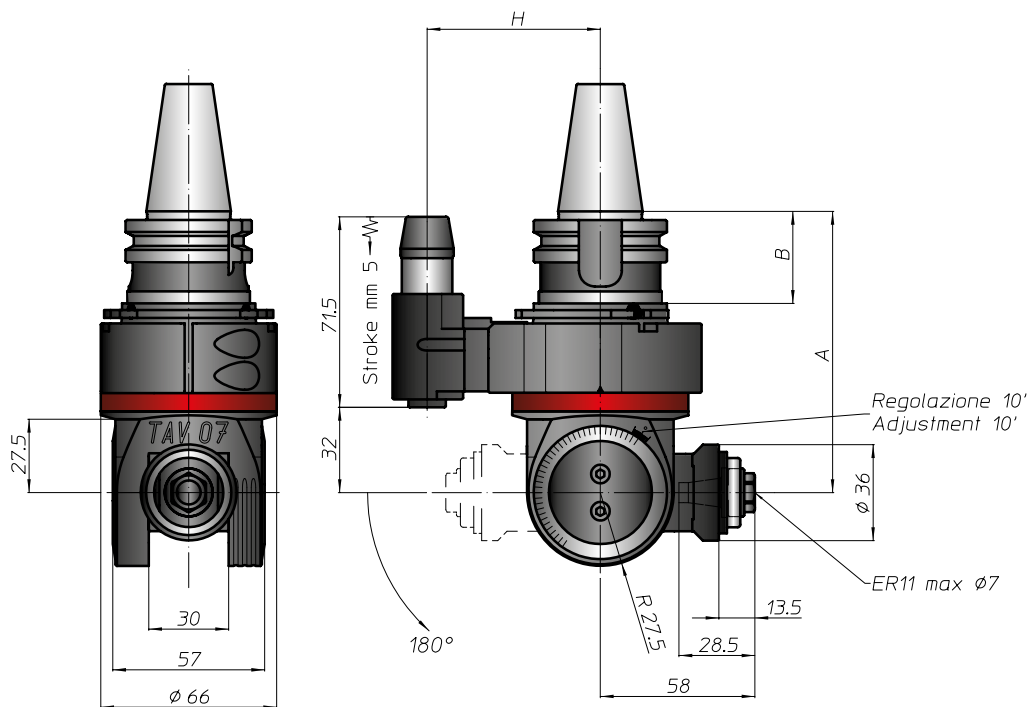
PESO
WEIGHT



ROTAZIONE
ROTATION



CARATTERISTICHE
FEATURES



CONO
SHANK

SIZE

A

B

H STANDARD

H OPTIONAL



DIN69871



ANSIB5.50



BT
30 40



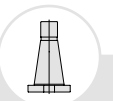
DIN69893



ISO26623



KM



DIN2080



ANSIB5.18

30	40	40	30	40	63			
105,5		105,5	105,5		114,5			
35		35	35		44			
65		65	65		65			





TA.CP

GALLERY

FH

BAH

TA.CP

TA

MOX

HT

3-10

VH

TSI/TSX

T

MT-TC-TC3





ANTIROTANTE TORQUE ARM



Il gruppo antirotante ricopre una funzione di fondamentale importanza nella qualità di lavorazione della testa ad angolo. Per questo motivo i tecnici della OMG hanno studiato e messo a punto un antirotante di nuova concezione i cui punti salienti sono:

- il perno conico
- registrazione flangia di fasatura semplice, veloce e precisa.

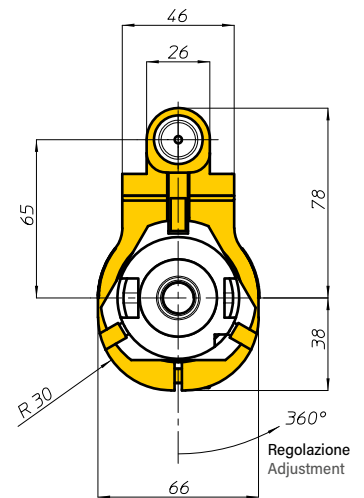
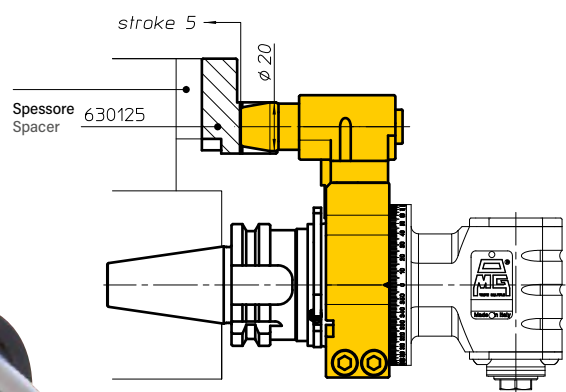
Il perno conico permette una maggiore rigidità del sistema antirotante rispetto ai tradizionali, dotati di perni di $\varnothing 18$ mm, perché si eliminano i giochi. Conseguenza un miglioramento della rigidità sia angolare che assiale.

Il perno conico è forato e perciò predisposto per il passaggio del liquido refrigerante ad un max di 10 bar. Qualora il cliente volesse portare il liquido vicino all'utensile, occorre semplicemente installare un piccolo tubo.

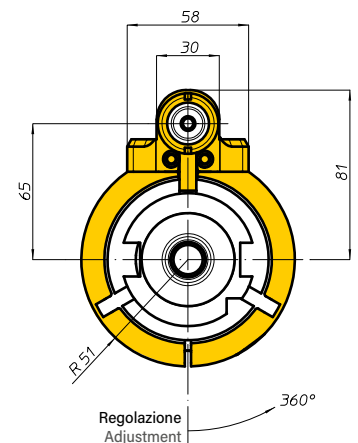
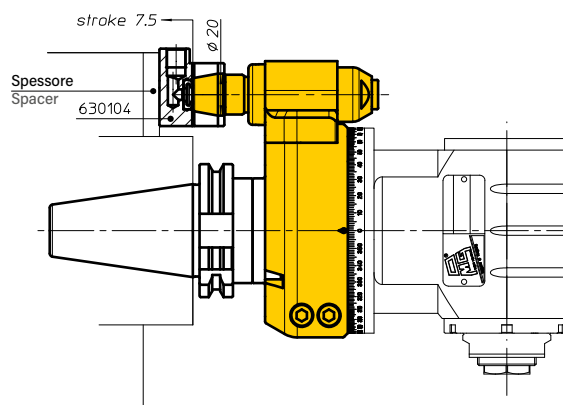


Quando possibile, nella Vostra applicazione, posizionate il perno conico dalla parte opposta al mandrino della testa ad angolo.

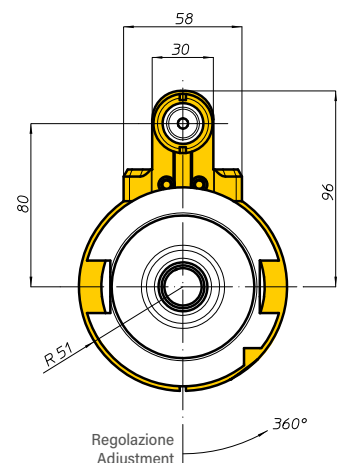
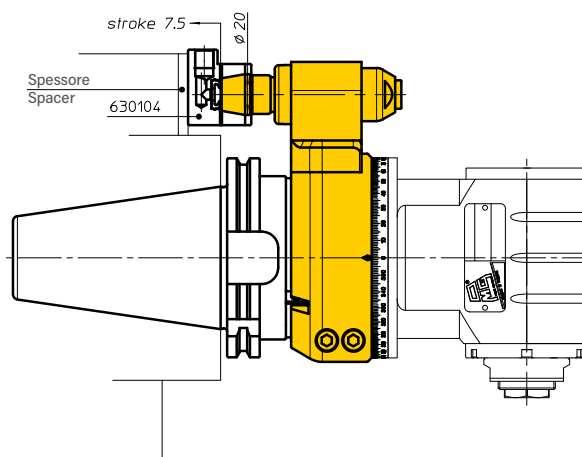
TESTE AD ANGOLO TA07.CP, TAV07.CP ANGLE HEADS TA07.CP, TAV07.CP



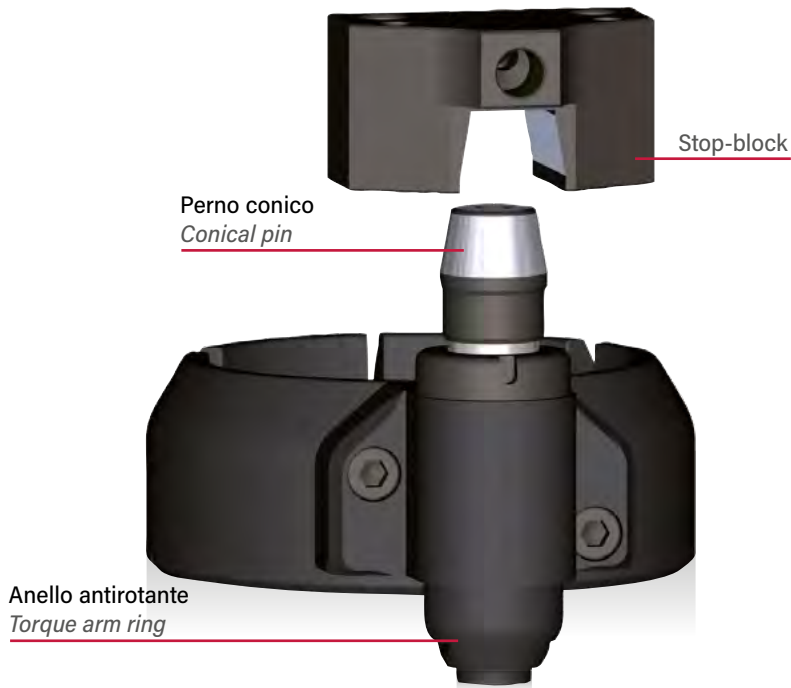
TESTE AD ANGOLO TA13.CP, TA16.CP CON INTERASSE H=65 ANGLE HEADS TA13.CP, TA16.CP WITH CENTRE DISTANCE H=65



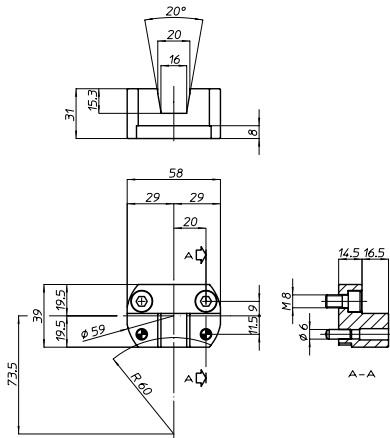
TESTE AD ANGOLO TA13.CP, TA16.CP CON INTERASSE H=80 ANGLE HEADS TA13.CP, TA16.CP WITH CENTRE DISTANCE H=80



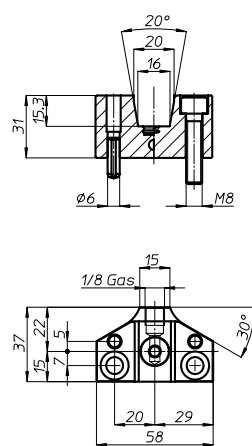
STOP-BLOCK



STOP-BLOCK (COD. 630125)

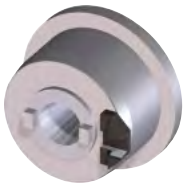


STOP-BLOCK (COD. 630104)

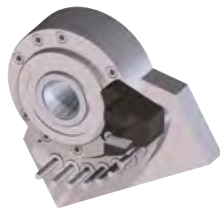


Stop-block preparati per Stop-block made for

HAAS



DMG Milltap



Mectron



Brother



Fanuc Robotdrill



The torque-arm system is fundamental to achieve high quality machining results.

This is why the OMG technicians have engineered and fine tuned a new generation torque-arm system with following characteristics:

- conical (V-shape) timing pin
- simple, fast and precise timing pin adjustment

The conical (V-shaped) pin ensures a higher rigidity to the torque-arm system (than the traditional ones equipped with $\varnothing 18$ mm pins) because cancelling backlashes. The result is the enhancement of both angular and axial rigidity.

The conical timing pin is equipped with a hole and therefore prepared to let coolant through it up to max 10 bar. When customer needs coolant close to the tool, he can install just a small pipe.



Position the conical pin on the opposite side of the angle head spindle when possible in your application.